ATTACHMENT #17
-SLUDGE CHEMICAL ANALYSIS
SUBMITTED TO D.E.Q. FOR APPROVAL

EXPRESS MAIL

October 31, 1980

Mr. Charles Gray
Oregon Dept. of Environmental Quality
P.O. Box 1760
Portland, Oregon 97207

Re: St. Helens - Solid Waste

Dear Mr. Gray:

Following up on our conversation October 30, 1980, we have provided below the additional information you requested to enable you to approve disposal of our pond dredgings at Scapoose.

1. Quantity

We have an immediate requirement to dispose of about 400,000 gallons of dredgings. This will be a recurring need but it is difficult at this time to project quantities and timing.

2. General Description

Attached lab results show % solids and % volatile solids in the dredgings. The % volatile solids represents the presence of organics from the wood pulp in the pond bottoms.

3. Metals

Samples of sludge and aeration pond dredging were subjected to USEPA EP extraction and the extract analyzed for metals as follows (ND is none detected - limit 1 µg/l)

Metal (mg/l)	Sludge Pond	Aeration Pond
Barium	ND	ND
Cadmium	ND	ND
Chromium	ND	ND
Lead	ND	ND
Silver	ND	ND
Arsenic	0.01	0.003
Selenium	0.01	<0.001
Mercury	ND	ND
Antimony	0.002	ND

Charles Gray - Portland, Oregon

4. Toxic Materials

Effluent sample was checked for all organics on the 129 priority pollutant list. Only the following were detected.

Number	Chemical	µg/l (parts per billion)
44.	Methylene Chloride	9.08
64.	Pentochlorophenol	1.126
68.	Di-N-Butylphthalate	1.52

We consider these results to be a credit to the power of modern analytical techniques and essentially a clean bill of health for our waste.

From our sampling of other water, we would classify the methylene chloride and phthalate ester as low background. Pentochlorophenol is a wood preservative and could be tramp in the sawdust or wood chips we use.

Sincerely,

OWENS-CORNING FIBERGLAS CORP.

C. A. Harrison
CAH:dg

bcc: Dennis Barcheski - St. Helens
Bruce Paskett - St. Helens
S. H. Thomas - BT/552